Map symbol and					Hydric soils	criteria	criteria	
map unit name	Component	Hydric	Local landform	Hydric criteria code	Meets saturation criteria	Meets flooding criteria		
AaB:								
ALICE FINE SANDY LOAM, 0 TO 6 PERCENT SLOPES	ALICE	No						
	VALE	No						
Ba: BARNUM SILT LOAM	BARNUM	No						
Bradion Brain Botan	HAVERSON	No						
	LOHMILLER HERDCAMP	No Yes	flood plain	2B3,4	YES	YES	NO	
Bb:	HERDCAMP	165	IIOOQ PIAIII	263,4	IES	165	INO	
BARNUM SILT LOAM, CHANNELED	BARNUM	No						
	ST. ONGE	No						
	LOHMILLER HERDCAMP	No Yes	flood plain	2B3,4	YES	YES	NO	
BcA: BONEEK SILT LOAM, 0 TO 2 PERCENT SLOPES	BONEEK	No						
TO Z PERCENT SHOPES	BUTCHE	No						
D-D.	CANYON	No						
BcB: BONEEK SILT LOAM, 2 TO 6 PERCENT SLOPES	BONEEK	No						
	BUTCHE	No						
BcC:	CANYON	No						
BONEEK SILT LOAM, 6 TO 9 PERCENT SLOPES	BONEEK	No						
	BUTCHE	No						
	CANYON   LAKOA	No No						
BdE:	HAROA	I NO						
BUSKA-ROCK OUTCROP ASSOCIATION, HILLY	BUSKA	No						
	ROCK OUTCROP, HARD	No						
	HISEGA	No						
	MAITLAND MARSHBROOK	No Yes	 flood plain	2B3	YES	NO	NO	
BeE:	MAKSIIBKOOK	165	IIOOQ PIAIII	203	TES	110	INO	
BUTCHE STONY LOAM, 6 TO 50 PERCENT SLOPES	BUTCHE	No						
	BONEEK	No						
	LAKOA  MAITLAND	No No						
	SATANTA	No						
BhE: BUTCHE-ROCK OUTCROP COMPLEX, 25 TO 50	BUTCHE	No						
PERCENT SLOPES	ROCK OUTCROP,	No						
	SANDY BONEEK	No						
	LAKOA	No						
	SATANTA	No						

			Hydric soils criteria			
Component	Hydric	Local landform	Hydric criteria code	Meets saturation criteria		
BUTCHE	No					
SATANTA LAKOA	No No	 			 	
CANYON	No					
BRIDGET MIDWAY	No No	 			 	 
CANYON	No					
BRIDGET MIDWAY	No No	  	 		 	 
CITADEL	No					
MAITLAND MARSHBROOK	No Yes	flood plain	2B3	YES	 NO	 NO 
ORTHENTS,	No					
	No					
MINNEQUA MIDWAY SAVO	No No	 	 		 	 
GLENBERG	No					
HAVERSON LOHMILLER	No No Yes	  flood plain	  2B3,4	  YES	  YES	 NO
GRIZZLY	No					
VIRKULA MAITLAND MARSHBROOK ROCK OUTCROP, HARD	No No Yes No	 flood plain 	2B3	 YES	 NO 	NO
GRUMMIT	No					
ROCK OUTCROP,	No					
	SATANTA LAKOA  CANYON  BRIDGET MIDWAY SATANTA  CANYON  BRIDGET MIDWAY SATANTA  CITADEL  MAITLAND MARSHBROOK VANOCKER  ORTHENTS, TAILINGS  ENNING  MINNEQUA MIDWAY SAVO  GLENBERG VARIANT HAVERSON LOHMILLER HERDCAMP  GRIZZLY  VIRKULA MAITLAND MARSHBROOK ROCK OUTCROP, HARD  GRUMMIT  ROCK	BUTCHE NO  SATANTA NO LAKOA NO  CANYON NO  BRIDGET NO MIDWAY NO SATANTA NO  CANYON NO  BRIDGET NO MIDWAY NO SATANTA NO  CANYON NO  CANYON NO  BRIDGET NO MIDWAY NO SATANTA NO  CITADEL NO  MAITLAND NO MARSHBROOK YES VANOCKER NO  ORTHENTS, TAILINGS  ENNING NO  MINNEQUA NO MIDWAY NO SAVO NO  GLENBERG NO VARIANT HAVERSON NO LOHMILLER NO HERDCAMP YES  GRIZZLY NO  VIRKULA NO MARSHBROOK YES GRIZZLY NO  VIRKULA NO MARSHBROOK YES GRIZZLY NO  OUTCROP, HARD  GRUMMIT NO  ROCK NO OUTCROP, ACID	BUTCHE NO  SATANTA LAKOA NO  CANYON NO  BRIDGET NO  MIDWAY NO  CANYON NO  BRIDGET NO  MIDWAY NO  CANYON NO  BRIDGET NO  MIDWAY NO  CITADEL NO  MAITLAND NO HARSHBROOK YES THOOM Plain  ORTHENTS, TAILINGS  ENNING NO  MINNEQUA NO  MINNEQUA NO  MINNEQUA NO  MINNEQUA NO  MIDWAY NO  GLENBERG NO  GLENBERG NO  TAVERSON NO  GLENBERG NO  VARIANT HAVERSON NO HOMILLER NO HERDCAMP YES Flood plain  GRIZZLY NO  VIRKULA NO  MAITLAND NO HARD Flood plain  GRIZZLY NO  VIRKULA NO HERDCAMP YES Flood plain  GRIZZLY NO  VIRKULA NO HARD HERDCAMP TO SERVE Flood plain  GRIZZLY NO  VIRKULA NO HARD HERDCAMP TO SERVE Flood plain  GRIZZLY NO  VIRKULA NO HARD HERDCAMP TO SERVE Flood plain  GRIZZLY NO  VIRKULA NO HARD HERDCAMP TO SERVE Flood plain  GRIZZLY NO  VIRKULA NO HARD HERDCAMP TO SERVE FlOOD Plain  GRIZZLY NO  VIRKULA NO HARD HERDCAMP TO SERVE FLOOD PLAIN  GRUMMIT NO  ROCK OUTCROP, HARD  GRUMMIT NO	BUTCHE NO  SATANTA NO  SATANTA NO  LAKOA NO  CANYON NO  BRIDGET NO  MIDWAY NO  SATANTA NO  BRIDGET NO  MIDWAY NO  BRIDGET NO  MIDWAY NO  CITADEL NO  MAITLAND NO  MAITLAND NO  MAITLAND NO  ORTHENTS, NO  TAILINGS  ENNING NO  MINNEQUA NO	BUTCHE NO   SATANTA NO   LAKOA NO   ERIDGET NO NO   SATANTA NO   BRIDGET NO NO   SATANTA NO   BRIDGET NO NO   CANYON NO   ERIDGET NO NO   MIDWAY NO SATANTA NO   CITADEL NO   MAITLAND NO	BUTCHE NO

Mara manal 3				I	Hydric soils	criteria	
Map symbol and map unit name	Component	Hydric	Local landform	Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria
GdE: GRUMMIT-ROCK OUTCROP COMPLEX, 15 TO 50	GRUMMIT	No					
PERCENT SLOPES	ROCK OUTCROP, ACID	No					
GeD:	GRANER	No					
GYPNEVEE-REKOP LOAMS, 6 TO 25 PERCENT SLOPES	GYPNEVEE	No					
	REKOP ROCK OUTCROP, SOFT	No No				 	
Ha: HIGGINS SILT LOAM	HIGGINS BARNUM	Yes No	flood plain	2B3	YES	NO 	NO 
	LOHMILLER	No					
HbF: HISEGA-ROCK OUTCROP ASSOCIATION, STEEP	HISEGA	No					
1.00001111011, 011111	ROCK OUTCROP, HARD	No					
	BUSKA MAITLAND	No No					
HcA: HISLE SILT LOAM, 0 TO	MARSHBROOK HISLE	Yes	flood plain	2B3	YES	NO 	NO 
3 PERCENT SLOPES	GRUMMIT	No					
	KYLE	No					
	PIERRE	No					
	SLICKSPOTS, DRY	No					
	SNOMO	No					
HdA: HISLE-SLICKSPOTS COMPLEX, 0 TO 3 PERCENT SLOPES	HISLE	No					
FERCENT SHOFES	SLICKSPOTS, DRY	No					
	GRUMMIT	No					
	KYLE	No					
	PIERRE	No					
	SNOMO	No					
V. A.	SAGE	Yes	flood plain	2B3	YES	NO	NO
KaA: KYLE CLAY, 0 TO 2 PERCENT SLOPES	KYLE	No					
	HISLE	No					
	NUNN	No					
	PIERRE	No					
	MCKENZIE	Yes	pothole	2B3,3	YES	NO	YES

Man arml11					Hydric soils	criteria	
Map symbol and map unit name	Component	Hydric	Local landform	Hydric criteria code	Meets saturation criteria	Meets flooding criteria	
KaB:							
KYLE CLAY, 2 TO 6 PERCENT SLOPES	KYLE	No					
	HISLE	No					
	NUNN	No					
	PIERRE	No					
I o E :	MCKENZIE	Yes	pothole	2B3,3	YES	NO	YES
LaE: LAKOA SILT LOAM, 25 TO 50 PERCENT SLOPES	LAKOA	No					
10 00 I EROERT SECTES	BONEEK	No					
	BUTCHE	No					
MaC:							
MAITLAND LOAM, 2 TO 9 PERCENT SLOPES		No					
MaD:	MARSHBROOK	Yes	flood plain	2B3	YES	NO	NO
MaD: MAITLAND LOAM, 9 TO 50 PERCENT SLOPES	MAITLAND	No					
JO PERCENT BEOFES	BONEEK	No					
	BUTCHE	No					
	MARSHBROOK	Yes	flood plain	2B3	YES	NO	NO
MbE: MARSHBROOK-MAITLAND ASSOCIATION, SLOPING	MARSHBROOK	Yes	flood plain	2B3	YES	NO	NO
	MAITLAND	No					
	BONEEK	No					
	BUTCHE	No					
McD: MIDWAY-RAZOR SILTY CLAY LOAMS, 6 TO 25 PERCENT SLOPES	MIDWAY	No					
THREBNI BHOLES	RAZOR	No					
	BRIDGET	No					
	CANYON	No					
	SAVO	No					
NaB: NEVEE SILT LOAM, 2 TO	NEVEE	No					
6 PERCENT SLOPES	SPEARFISH	No					
	TILFORD	No					
	VALE	No					
NaC: NEVEE SILT LOAM, 6 TO	NEVEE	No					
9 PERCENT SLOPES	CDEADETCIT	No		_			_
	SPEARFISH  TILFORD	No No					
	VALE	No					
NbD: NEVEE-SPEARFISH-ROCK OUTCROP COMPLEX, 9	NEVEE	No					
TO 40 PERCENT SLOPES							
10 40 PERCENT SLOPES	SPEARFISH ROCK OUTCROP,	No No				 	
	SOFT GYPNEVEE	No					
							l –––

				Hydric soils criteria				
Map symbol and map unit name	Component	Hydric	Local landform	Hydric criteria code	Meets saturation criteria	Meets flooding criteria		
NcD: NIHILL GRAVELLY LOAM, 6 TO 25 PERCENT SLOPES	NIHILL	No						
	ALICE SATANTA	No No	plain, terrace					
1	SPEARFISH	No						
NdA: NUNN CLAY LOAM, 0 TO 2 PERCENT SLOPES	NUNN	No						
	KYLE	No						
	PIERRE	No						
	HOVEN	Yes	pothole	3,2B3	YES	NO	YES	
NdB:		İ	_	,				
NUNN CLAY LOAM, 2 TO 6 PERCENT SLOPES	NUNN	No						
	KYLE	No						
	PIERRE	No						
	HOVEN	Yes	pothole	2B3,3	YES	NO	YES	
NdC: NUNN CLAY LOAM, 6 TO 9 PERCENT SLOPES	NUNN	No						
J I BROBNI BEOLES	PIERRE	No						
	SAVO	No						
PaE: PACTOLA-ROCK OUTCROP	PACTOLA	No						
ASSOCIATION, HILLY	ROCK OUTCROP,	No						
	HARD							
	BUSKA	No						
	GRIZZLY	No						
	MAITLAND	No		202	1			
Dhu.	MARSHBROOK	Yes	flood plain	2B3	YES	NO	NO	
PbE: PAUNSAUGUNT-ROCK OUTCROP COMPLEX, 6 TO 50 PERCENT SLOPES	PAUNSAUGUNT	No						
10 JU PERCENT SHOPES	ROCK OUTCROP,	No						
	SANDY	NT-						
	TILFORD	No						
PcB:	VALE	No						
PIERRE CLAY, 2 TO 6 PERCENT SLOPES	PIERRE	No						
	GRUMMIT	No						
	HISLE	No						
	KYLE	No						
	NUNN	No						
	STETTER	No						
	VARIANT							
PcD: PIERRE CLAY, 6 TO 25	PIERRE	No						
PERCENT SLOPES	CDIMMIT	NT -						
	GRUMMIT	No						
	HISLE   SNOMO	No No						
	STETTER	No No						

Map symbol and				н	Hydric soils criteria			
map unit name	Component	Hydric	Local landform	Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria	
Pe: PITS, QUARRY	ROCK OUTCROP, HARD	No						
RaE: REKOP-GYPNEVEE-ROCK OUTCROP COMPLEX, 15 TO 50 PERCENT SLOPES	REKOP	No						
10 30 IBRODNI BBOLBO	GYPNEVEE ROCK OUTCROP, SANDY	No No		 				
RbF:	NEVEE SPEARFISH TILFORD	No No No	 	 		   	 	
ROF. ROCK OUTCROP-PACTOLA ASSOCIATION, STEEP	ROCK OUTCROP,	No						
	HARD PACTOLA GRIZZLY MAITLAND MARSHBROOK	No No No Yes	  flood plain	  2B3	  YES	  NO	  NO	
RCF: ROCK OUTCROP-VANOCKER ASSOCIATION, VERY	OUTCROP,	No						
STEEP	SANDY VANOCKER CITADEL MARSHBROOK WINETTI	No No Yes No	 flood plain 	2B3	  YES 	 NO 	 NO	
SaA: SATANTA LOAM, 0 TO 2 PERCENT SLOPES	SATANTA	No						
G-D.	BONEEK NUNN HOVEN	No No Yes	  pothole	2B3,3	 YES	 NO	 YES	
SaB: SATANTA LOAM, 2 TO 6 PERCENT SLOPES	SATANTA	No						
g.g.	BONEEK NUNN HOVEN	No No Yes	  pothole	 2B3,3	  YES	 NO	  YES	
SaC: SATANTA LOAM, 6 TO 9 PERCENT SLOPES	SATANTA	No						
	BONEEK BUTCHE NUNN	No No No	  	 		 	 	
SbA: SAVO SILT LOAM, 0 TO 2 PERCENT SLOPES	SAVO	No						
Z FERCENT SHOPES	NUNN TILFORD VALE HOVEN	No No No Yes	  pothole	  2B3,3	  YES	  NO	  YES	

				Hydric soils criteria			
Map symbol and map unit name	Component	Hydric	Local landform	Hydric criteria code	Meets saturation criteria	Meets flooding criteria	
SbB: SAVO SILT LOAM, 2 TO 6 PERCENT SLOPES	SAVO	No					
O PERCENT SHOPES	NUNN TILFORD	No No			 	 	
	VALE   HOVEN	No Yes	pothole	3,2B3	YES	NO	YES
ScD: SNOMO-ROCK OUTCROP COMPLEX, 6 TO 25 PERCENT SLOPES	SNOMO	No					
TERCENT DEOLEG	ROCK OUTCROP, ACID	No					
Sd:	GRUMMIT	No					
STETTER VARIANT SILTY CLAY LOAM SeE:	STETTER VARIANT	No					
STOVHO ASSOCIATION, ROLLING	STOVHO	No					
	TREBOR ROCK OUTCROP, LIMESTONE	No No	mountain slope				
	MAITLAND MARSHBROOK	No Yes	 flood plain	 2B3	YES	NO	 NO
SgF: STOVHO-TREBOR ASSOCIATION, STEEP	STOVHO	No					
	TREBOR MARSHBROOK VANOCKER ROCK OUTCROP, LIMESTONE	No Yes No No	flood plain mountain slope	2B3  	YES	NO  	NO
ShA: ST. ONGE LOAM, 0 TO 2 PERCENT SLOPES	ST. ONGE	No					
Ol- •	BARNUM SWINT HERDCAMP	No No Yes	  flood plain	 4,2B3	 YES	 YES	 NO
Sk: SWINT SILT LOAM	SWINT BARNUM VALE HERDCAMP	No No No Yes	  flood plain	  2B3,4	   YES	  YES	  NO
TaA: TILFORD SILT LOAM, 0 TO 2 PERCENT SLOPES	TILFORD	No					
TO Z FERCENT SHOPES	NEVEE VALE HOVEN	No No Yes	 pothole	 3,2B3	  YES	 NO	  YES
TaB: TILFORD SILT LOAM, 2	TILFORD	No		J, ZBJ			
TO 6 PERCENT SLOPES	NEVEE VALE HOVEN	No No Yes	  pothole	 2B3,3	  YES	 NO	  YES

All mapunits are displayed regardless of hydric status and are listed in alpha-numeric order by mapunit symbol. The "Hydric Soils Criteria" columns indicate the conditions that caused the mapunit component to be classified as "Hydric" or "Non-Hydric". These criteria are defined in "Hydric Soils of the United States"(USDA Miscellaneous Publication No. 1491, June, 1991). See the "Criteria for Hydric Soils" endnote todetermine the meaning of these columns. Spot symbols are footnoted at the end of the table.

Mana ananda di anad				I	Hydric soils	criteria	
Map symbol and map unit name	Component	Component Hydric		Hydric criteria code	Meets saturation criteria		Meets ponding criteria
TaC: TILFORD SILT LOAM, 6	TILFORD	No					
TO 9 PERCENT SLOPES	NEVEE VALE	No No					
TbE: TREBOR-ROCK OUTCROP	TREBOR	No					
ASSOCIATION, HILLY	ROCK OUTCROP,	No					
	SANDY STOVHO	No					
VaA: VALE SILT LOAM, 0 TO 2 PERCENT SLOPES	VALE	No					
	NEVEE TILFORD HOVEN	No No Yes	 pothole	 2B3,3	  YES	 NO	 YES
VaB: VALE SILT LOAM, 2 TO	VALE	No					
6 PERCENT SLOPES	   NEVEE   TILFORD   SPEARFISH	No No No	 	 		  	 
VaC: VALE SILT LOAM, 6 TO	HOVEN	Yes No	pothole	2B3,3	YES	NO 	YES
9 PERCENT SLOPES	NEVEE SPEARFISH	No No					
VbF: VANOCKER-CITADEL	TILFORD VANOCKER	No No					
ASSOCIATION, STEEP	CITADEL MAITLAND	No No					
VcE: VIRKULA ASSOCIATION,	MARSHBROOK VIRKULA	Yes No	flood plain	2B3 	YES	NO	NO 
HILLY	CITADEL GRIZZLY MAITLAND MARSHBROOK VANOCKER ROCK OUTCROP, HARD	No No No Yes No No	flood plain	2B3	  YES 	  NO 	  NO 
WaA: WEBER LOAM, 0 TO 2 PERCENT SLOPES	WEBER	No					
I ENCENI SHOPES	SATANTA SWINT	No No					
Wb: WINETTI COBBLY LOAM	  WINETTI  BARNUM  NEVEE	No No No	  	 		 	 
ww: WATER < 40 ACRES	WATER (LESS THAN 40 ACRES)	Unrank ed					

SD-NRCS- JULY 2002

All mapunits are displayed regardless of hydric status and are listed in alpha-numeric order by mapunit symbol. The "Hydric Soils Criteria" columns indicate the conditions that caused the mapunit component to be classified as "Hydric" or "Non-Hydric". These criteria are defined in "Hydric Soils of the United States"(USDA Miscellaneous Publication No. 1491, June, 1991). See the "Criteria for Hydric Soils" endnote todetermine the meaning of these columns. Spot symbols are footnoted at the end of the table.

Map symbol and					HZ	ydric soils	criteria	
map unit name	Component	Hydric	Local	landform	Hydric criteria code	Meets saturation criteria		

FOOTNOTE: There may be small areas of included soils or miscellaneous areas that are significant to use an management of the soil; yet are too small to delineate on the soil map at the map's original scale. These may be designated as spot symbols and are defined in the published Soil Survey Report or the USDA-NRCS Technical Guide, Part II.

Areas mapped as water or any map unit that contains one of the following conventional symbols is considered a hydric soil map unit: marshes or swamps; wet spots; depressions; streams, lakes and ponds.

- 1. All Histosols except Folists, or
- 2. Soils in Aquic suborders, great groups, or subgroups, Albolls suborder, Aquisalids, Pachic subgroups, or Cumulic subgroups that are:
  - a. Somewhat poorly drained with a water table equal to 0.0 foot (ft) from the surface during the growing season, or
  - b. poorly drained or very poorly drained and have either:
    - (1) water table equal to 0.0 ft during the growing season if textures are coarse sand, sand, or fine sand in all layers within 20 inches (in),
    - (2) water table at less than or equal to 0.5 ft from the surface during the growing season if permeability is equal to or greater than 6.0 in/hour (h) in all layers within 20 in, or
    - (3) water table at less than or equal to 1.0 ft from the surface during the growing season if permeability is less than 6.0 in/h in any layer within 20 in, or
- 3. Soils that are frequently ponded for long duration or very long duration during the growing
- 4. Soils that are frequently flooded for long duration or very long duration during the growing